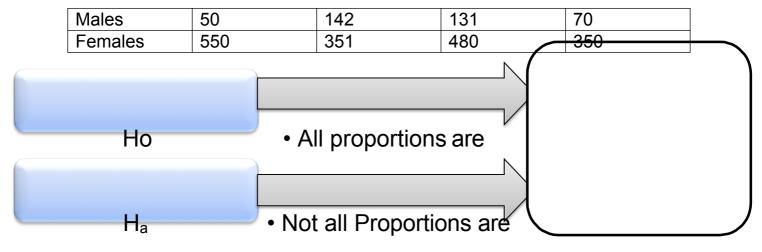
Assignment_2

 Sales of products in four different regions is tabulated for males and females. Find if male-female buyer rations are similar across regions.

East West North South



- 1. Check p-value
- 2. If p-Value < alpha, we reject Null Hypothesis

Buyer Ratio.csv

2) Telecall uses 4 centers around the globe to process customer order forms. They audit a certain % of the customer order forms. Any error in order form renders it defective and must be reworked before processing. The manager wants to check whether the defective % varies by center. Please analyze the data at 5% significance level and help the manager draw appropriate inferences

File: Customer OrderForm.csv

3) Fantaloons Sales managers commented that % of males versus females walking into the store differ based on day of the week. Analyze the data and determine whether there is evidence at 5 % significance level to support this hypothesis.

File: Fantaloons.csv

Hints:

1. Business Problem

Objective

Constraints (if any)

- 2. Data Pre-processing
 - 2.1 Data cleaning, Feature Engineering, EDA etc.
- 3. Model Building

Partition the dataset
Model(s) - Reasons to choose any algorithm
Model(s) Improvement steps
Model Evaluation
Python and R codes

- 4. Deployment
 - 4.1 Deploy solutions using R shiny and Python Flask.
- 5. Result Share the benefits/impact of the solution how or in what way the business (client) gets benefit from the solution provided.

Note:

- 1. For each assignment the solution should be submitted in the format
- 2. For Hypothesis Testing Assignments, explanation of the solutions along with Business Objectives & Business Constraints should be documented in black and white along with the codes.
- 4. All the codes (executable programs) are running without errors
- 5. From Hypothesis module assignment onwards, along with R & Python code, Documentation must be submitted in the same order as mentioned above.

For Hypothesis Testing Assignments, explanation of the solutions Business Objectives & Business Constraints should be documented in black and white along with the codes (R & Python).

All the test should be explained well in documentation (Normality test, Variance test etc.)